

TRANSMISSION POWER CONTROL SYSTEM FOR TRANSPONDERS

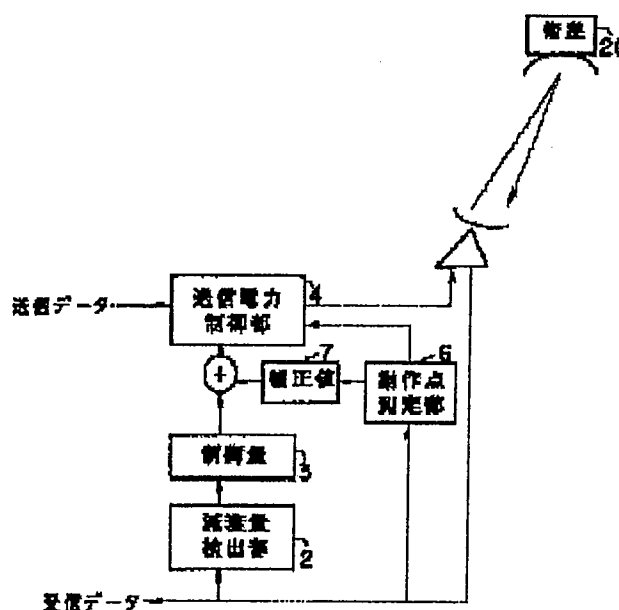
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Inventor: KAZAMA HIROSHI; SAKAI TSUTOMU; KATO SHUZO
Applicant: NIPPON TELEGRAPH & TELEPHONE
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Abstract of JP5114878

PURPOSE: To reduce the interference and to improve the line quality by measuring the operating point of each transponder in a specific earth station (reference station) and correcting the operational characteristic difference for each transponder on the transmission of the earth station.

CONSTITUTION: The operational characteristic of the transponder is measured in fine weather, and a transmission power is changed by the direction from an operational point measurement part 6 to a transmission power control part 4, changing the input power to a satellite 20. A self-station closed loop signal which comes back from the satellite 20 is received, and the reception power of the reception signal is measured by an operating point measurement part 6. The operational characteristic (I/O characteristic) of the transponder of the transmission power/reception power is taken, the prescribed back-off is taken from a saturation point of the reception power (that is the output power of the transponder) so as to decide the optimum output power. The optimum input power (that is the optimum operational point) is obtained based on the optimum output power. All the measurement are performed and the difference between the reception synchronizing transponder and the optimum operating point is taken as an inter-transponder correction value.



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